

WHAT IS CLAIMED IS:

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1 1. A method of producing an output object, the method comprising the steps
2 of:
3 receiving an input object, wherein the received input object contains input data and
4 one input function;
5 determining a type of the received input object;
6 based on the determined type, ascertaining whether the received input object satisfies
7 one or more predefined requirements; and
8 when it is ascertained that the received input object satisfies each predefined
9 requirement, executing the input function.

1 2. The method of claim 1, wherein the step of ascertaining further comprises
2 ascertaining whether the received input object satisfies one or more predefined requirements
3 by executing one or more verification functions.

1 3. The method of claim 2, wherein a source code for each verification function
2 is located in a predefined section of a controller object source code.

1 4. The method of claim 1, further comprising the step of
2 producing an output object by using a result produced by the executed input function.

1 5. The method of claim 4, wherein the received input object is received from
2 an application, and wherein the method further comprises the step of returning the output
3 object to the application.

1 6. The method of claim 4, wherein the received input object is received from a

2 user, and wherein the method further comprises the step of returning the output object to
3 the user.

1 7. The method of claim 1, wherein the step of receiving comprises receiving a
2 plurality of input objects, wherein each received input object contains an input function, and
3 wherein each input function has a predefined signature.

1 8. The method of claim 7, wherein the method further comprises the step of
2 regulating a flow of received input objects.

1 9. The method of claim 8, wherein regulating the flow comprises storing some
2 of the received input objects in a queue.

1 10. The method of claim 8, wherein regulating the flow comprises the steps of:
2 returning some of the received input objects to a sender; and requesting that the sender re-
3 send the received input objects at a later time.

Sub A ~~11. An apparatus for producing an output object, comprising:
2 a computer;
3 one or more computer programs, performed by the computer, for receiving an input
4 object, wherein the received input object contains input data and one input function,
5 determining a type of the received input object, based on the determined type, ascertaining
6 whether the received input object satisfies one or more predefined requirements, and when it
7 is ascertained that the received input object satisfies each predefined requirement, executing
8 the input function.~~

1 12. The apparatus of claim 11, wherein the means of ascertaining further

2 comprises ascertaining whether the received input object satisfies one or more predefined
3 requirements by executing one or more verification functions.

1 13. The apparatus of claim 12, wherein a source code for each verification
2 function is located in a predefined section of a controller object source code.

Sub A 14. The apparatus of claim 11, wherein the apparatus further comprises one or
2 more computer programs, performed by the server computer for producing an output object
3 by using a result produced by the executed input function.

1 15. The apparatus of claim 14, wherein the received input object is received
2 from an application, and wherein the apparatus further comprises one or more computer
3 programs, performed by the computer for returning the output object to the application.

1 16. The apparatus of claim 14, wherein the received input object is received
2 from a user, and wherein the apparatus further comprises one or more computer programs,
3 performed by the computer for returning the output object to the user.

1 17. The apparatus of claim 11, wherein the means of receiving comprises
2 receiving a plurality of input objects, wherein each received input object contains an input
3 function, and wherein each input function has a predefined signature.

1 18. The apparatus of claim 17, wherein the apparatus further comprises one or
2 more computer programs, performed by the computer for regulating a flow of received
3 input objects.

1 19. The apparatus of claim 18, wherein regulating the flow comprises storing

2 some of the received input objects in a queue.

1 20. The apparatus of claim 18, wherein regulating the flow comprises:
2 one or more computer programs, performed by the computer for returning some of
3 the received input objects to a sender, and requesting that the sender re-send the received
4 input objects at a later time.

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1 21. An article of manufacture comprising a computer program carrier readable
2 by a computer and embodying one or more instructions executable by the computer to
3 perform method steps for producing an output object, the method comprising the steps of:
4 receiving an input object, wherein the received input object contains input data and
5 one input function;
6 determining a type of the received input object;
7 based on the determined type, ascertaining whether the received input object satisfies
8 one or more predefined requirements; and
9 when it is ascertained that the received input object satisfies each predefined
10 requirement, executing the input function.

1 22. The article of manufacture of claim 21, wherein the step of ascertaining
2 further comprises ascertaining whether the received input object satisfies one or more
3 predefined requirements by executing one or more verification functions.

1 23. The article of manufacture of claim 22, wherein a source code for each
2 verification function is located in a predefined section of a controller object source code.

1 24. The article of manufacture of claim 21, wherein the method further
2 comprises the step of producing an output object by using a result produced by the executed

3 input function.

1 25. The article of manufacture of claim 24, wherein the received input object is
2 received from an application, and wherein the method further comprises the step of
3 returning the output object to the application.

1 26. The article of manufacture of claim 24, wherein the received input object is
2 received from a user, and wherein the method further comprises the step of returning the
3 output object to the user.

1 27. The article of manufacture of claim 21, wherein the step of receiving
2 comprises receiving a plurality of input objects, wherein each received input object contains
3 an input function, and wherein each input function has a predefined signature.

1 28. The article of manufacture of claim 27, wherein the method further
2 comprises the step of regulating a flow of received input objects.

1 29. The article of manufacture of claim 28, wherein regulating the flow
2 comprises storing some of the received input objects in a queue.

1 30. The article of manufacture of claim 28, wherein regulating the flow
2 comprises the steps of:
3 returning some of the received input objects to a sender; and
4 requesting that the sender re-send the received input objects at a later time.